



**DEPARTMENT OF THE AIR FORCE**  
**OKLAHOMA CITY AIR LOGISTICS COMPLEX (OC-ALC)**  
**TINKER AIR FORCE BASE OKLAHOMA**

**Statement of Requirement / Item Description**

Agilent Technologies Varian SH 110 Dry Scroll Pump, Single Phase, 100/230 VAC, 50/60 Hz,  
SH01101UNIV, SH110 or Equal

Quantity one (1) SH01101UNIV Dry Scroll Pump:

- Must be oil free.
- Must conform with CE, CSA and Semi S2-2000
- Gas ballast must be 1/8" Female National Pipe Thread (20 micron sintered and solid plugs provided)
- Must be Air-cooled, cooling system
- Motor must be (1 phase) 0.25 HP (0.19 kW) 100/115: 200/230 VAC, 50-60 Hz
- Must perform in Ambient operating temperature 5°C to 40°C (41°F to 104°F)
- Must have peak pumping speed 60 Hz: 110 lpm, 6.6 m<sup>3</sup>/hr, 4.0 cfm, 50 Hz: 90 lpm, 5.4 m<sup>3</sup>/hr, 3.3 cfm
- Must have exhaust connection 1/4" Female National Pipe Thread (NW16 adapter provided)
- Must not exceed maximum outlet pressure 1.5 atmosphere (7.5 psig)
- Must have a maximum inlet pressure 1.0 atmosphere (0 psig)
- Ultimate pressure must be 5.0 x 10<sup>-2</sup> Torr (6.6 x 10<sup>-2</sup> mbar)
- Motor thermal protection must be automatic thermal protection
- Media must be No corrosive, explosive or particulate forming gases
- Leak rate (with exhaust sealed) must be <1 x 10<sup>-7</sup> sccs helium
- Must have an inlet connection NW25